# HiPrene® MT61DT

Polypropylene

GS Caltex

## Message:

HiPrene® MT61DT is a 16% mineral filled, elastomer modified polypropylene compound suitable for injection moulding. This material combines good impact/stiffness balance, high scratch resistance and good flowability. It gives a good surface quality and is especially designed for esthetical interior parts such as instrument panels, lower and upper dashboard, door panels and trims. This grade is available in natural or color-matched, pellet form.

| General Information | |
|---|---|
| Filler / Reinforcement | Mineral filler, 16% filler by weight |
| Additive | Impact modifier |
| Features | Impact modification<br>Rigidity, high<br>High scratch resistance<br>Impact resistance, high<br>Workability, good<br>Good liquidity<br>Excellent appearance |
| Uses | Application in Automobile Field<br>Car interior parts<br>Car interior equipment<br>Car dashboard |
| Appearance | Available colors<br>Natural color |
| Forms | Particle |
| Processing Method | Injection molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Specific Gravity | 1.02 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | 27 | g/10 min | ASTM D1238 |
| Molding Shrinkage | | | Internal method |
| Flow | 1.1 | % | Internal method |
| Transverse flow | 1.1 | % | Internal method |
| Ash Content (600°C) | 16 | % | Internal method |
| Volatile Matter | 0.10 | % | Internal method |
| Anti-scratch-Delta L [1] | 0.800 | | |
| Flammability | 85 | mm/min | TL 1010 |
| Fogging [2] (100°C) | | mg | DIN 75201 |
| Emission | | g | VDA 277 |

| | | | |
|---|---|---|---|
| Odor [3] (80°C) | 2.80 | | |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 75 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 22.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 70 | % | ASTM D638 |
| Flexural Modulus [4] (23°C) | 2000 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 15.0 | $kJ/m^2$ | ASTM D256 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 80.0 | °C | |
| Drying Time | 2.0 | hr | |
| Hopper Temperature | 40.0 - 80.0 | °C | |
| Processing (Melt) Temp | 210 - 250 | °C | |
| Mold Temperature | 30.0 - 50.0 | °C | |
| Holding Pressure | 4.00 - 6.50 | MPa | |

| Injection instructions |
|---|
| Back Pressure: Low to MediumScrew Speed: Low to MediumInjection Speed: 100 to 200 m/min |

| NOTE | |
|---|---|
| 1. | Performed on black plaques with rough structure, acc. PV 3952 |
| 2. | 16 hr |
| 3. | 2 hr, acc. PV 3900 |
| 4. | 2.0 mm/min |



## Recommended distributors for this material

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